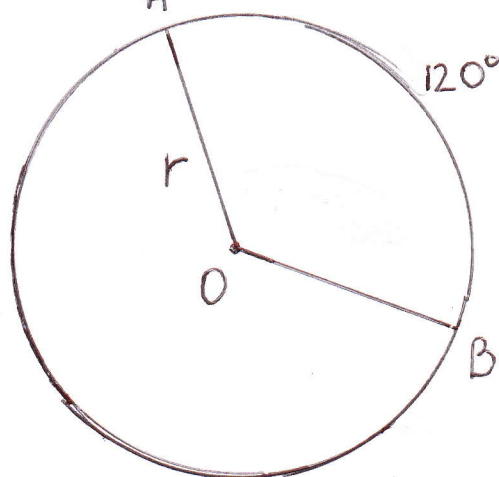


#4

3 points



Given: $\widehat{AB} = 6\pi$ m

$m\angle AOB = 120^\circ$

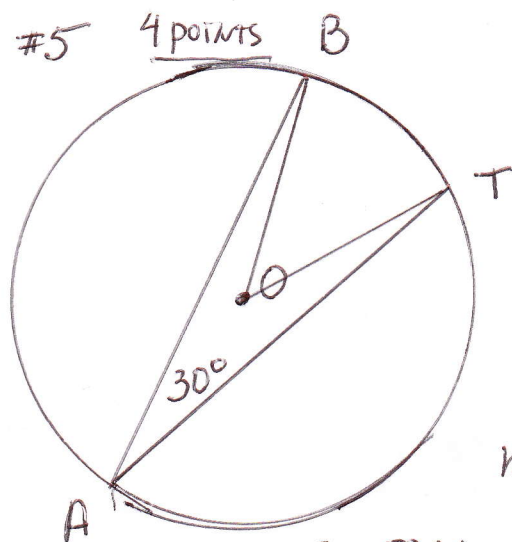
Find: R - ?

$$\frac{360^\circ}{120^\circ} = \frac{2\pi R}{6\pi}; \quad \frac{3}{1} = \frac{R}{3}$$

$$R = 3 \cdot 3 = 9 \text{ m}$$

#5

4 points



GIVEN: $R = 18$ ft

$m\angle RAT = 30^\circ$ (INSCRIBED ANGLE)

Find: \widehat{RT} - ?

$$m\angle BOT = 30^\circ \cdot 2 = 60^\circ$$

CENTRAL ANGLE ($\angle BOT$) IS TWICE GREATER THAN INSCRIBED ANGLE ($\angle BAT$)

$$\frac{360^\circ}{60^\circ} = \frac{2\pi R}{x}; \quad \frac{6}{1} = \frac{2 \cdot 3.14 \cdot 18}{x}$$

$$6x = 6.28 \cdot 18$$

$$x = \frac{6.28 \cdot 18}{6} = 18.84 \text{ ft}$$